



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0000535, Grady County **OFFICE** Preconstruction
CSNHS-0000-00(535)
SR 38/US 84 at SR 112 and 17th Avenue –
Intersection Improvement **DATE** May 2, 2007

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO  David E. Studstill, Jr., P.E. Chief Engineer

SUBJECT **APPROVED PROJECT CONCEPT REPORT**

Attached for your files is the approval for subject project.

GRS/cj

Attachment

DISTRIBUTION:

Brian Summers
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Angela Alexander (file copy)
Paul Liles
Babs Abubakari
Joe Sheffield
BOARD MEMBER

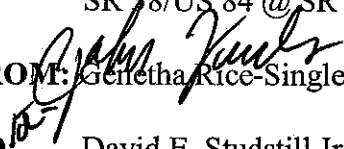
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: P.I. No. 0000535 Grady County
CSNHS-0000-00(535)
Intersection Improvement-
SR 38/US 84 @ SR 112 and 17th Ave.

OFFICE: Preconstruction

DATE: April 30, 2007

FROM:  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO: David E. Studstill Jr. P.E., Chief Engineer

SUBJECT: PROJECT CONCEPT REPORT

This project is the realignment of SR 112 and 17th Avenue at the SR 38/US 84 intersection located in Grady County, at the north city limits of Cairo, Georgia. SR 38/US 84 consists of a four lane (two in each direction) with a flush median and curb and gutter. State Route 112 and 17th Avenue consists of two lanes with rural shoulders. State Route 112 and 17th Avenue currently intersects SR38/US 84 approximately 200' apart at skewed "Y" intersections. The purpose of this project is to reduce the incidence of crashes at or near the intersections. There were fifty-nine (59) accidents within the project limits from 2001 to 2004. Traffic along SR38/US 84 is expected to be 14,000 VPD and 23,100 VPD in the years 2014 and 2034 respectively.

The project proposes to realign SR 112 and 17th Avenue to create 90 degree intersections. The realigned roadways will be spaced approximately 1200' apart and will consist of two, 12' lanes with 8' rural shoulders (2' paved). A northbound right-turn lane will be constructed on SR 38/US 84. Traffic will be maintained on the existing roadway, via staging, during construction.

Environmental concerns include requiring a COE 404 permit; a Categorical Exclusion will be prepared; a Public hearing is not required; Time saving procedures are appropriate.

The estimated costs for this project are:

| | PROPOSED | APPROVED | FUNDING | PROG DATE |
|--|--------------|-------------|---------|-----------|
| Construction (includes E&C And inflation) | \$ 1,282,000 | \$1,282,000 | L050 | LR |
| Right-of-way | \$ 60,000 | \$ 60,000 | L050 | LR |
| Utilities | \$ 50,000 | | | |

P.I. No. 0000535, Grady County
April 30, 2007

- Notification letter sent to Cairo and Grady 8-10-05

I recommend this project concept be approved.

GRS: JDQ


Attachment

CONCUR



Todd I. Long, P.E., Director of Preconstruction

APPROVED



David E. Studstill Jr. P.E., Chief Engineer

RECEIVED
APR 20 2007

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: CSNHS-0000-00(535) Grady County **OFFICE:** Engineering Services
P.I. No. 0000535
Intersection Improvement SR 38 @ SR 112

DATE: April 19, 2007

FROM:  Brian K. Summers, P.E., Project Review Engineer

TO: Genetha Rice-Singleton Assistant Director of Preconstruction

SUBJECT: CONCEPT REPORT

We have reviewed the Concept Report received March 22, 2007 from Sandy Griffin, and have the following comments.

The right of way costs should be reviewed and approved by the Office of Right of Way.

The costs for this project are:

| | |
|------------------------|-------------|
| Construction | \$1,165,544 |
| E & C | \$ 116,555 |
| Reimbursable Utilities | \$ 50,000 |
| Right of Way | \$ 60,000 |

BKS

c: Joe Sheffield, Attn.: Sandy Griffin

21 March, 2007

State of Georgia Department of Transportation

Project Concept Report Page: 1

Project Number: CSNHS-0000-00 (535)

P. I. Number: 0000535

County: Grady

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

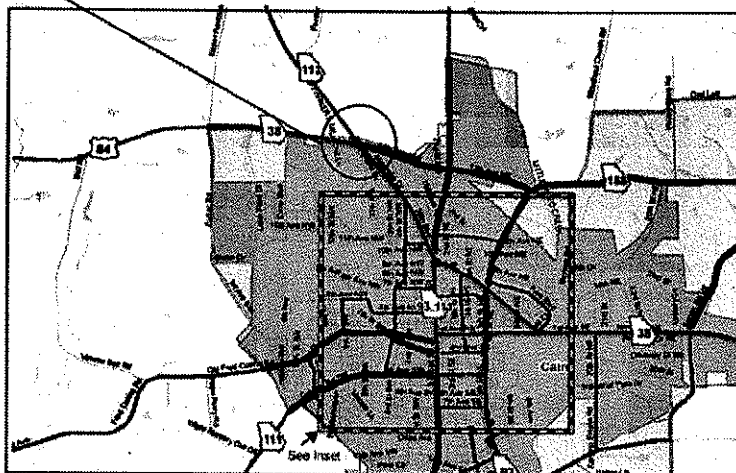
District 4 - Tifton, GA

Project Number: CSNHS-0000-00 (535)

County: Grady

P. I. Number: 0000535

PROJECT LOCATION



Federal Route Number: N/A

State Route Number: N/A.

Intersection Improvement SR 38/US 84 @ SR 112 AND 17th AVE

Recommended for approval:

DATE: 3-22-07

DATE: 3-22-07

This concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and/or the State Transportation Improvement Program (STIP).

DATE: _____

DATE: _____

DATE: _____

DATE: _____

DATE: 4/19/07

Ralph L. Hoff
Project Manager

Joe W. Gufford
District Engineer

State Transportation Planning Administrator

Financial Management Administrator

State Environmental/Location Engineer

State Traffic Safety and Design Engineer

[Signature]
Project Review Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0000535

OFFICE: Environment/Location

DATE: March 30, 2007

FROM: 
Harvey D. Keepler, State Environmental/Location Engineer

TO: Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT: PROJECT CONCEPT REPORT
CSNHS-0000-00(535) / Grady County
Intersection Improvement S.R. 38 / U.S. 84 @ S.R. 112 and 17th Ave.

The above subject concept report has been reviewed. This Office has no comment at this time.

If you have any questions, please contact me at (404) 699-4401.

HDK/lc

Attachment

cc: Brian Summers
Joe Sheffield
Keith Golden
Angela Alexander
Jamie Simpson

21 March, 2007

State of Georgia Department of Transportation

Project Concept Report Page: 1

Project Number: CSNHS-0000-00 (535)

P. I. Number: 0000535

County: Grady

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

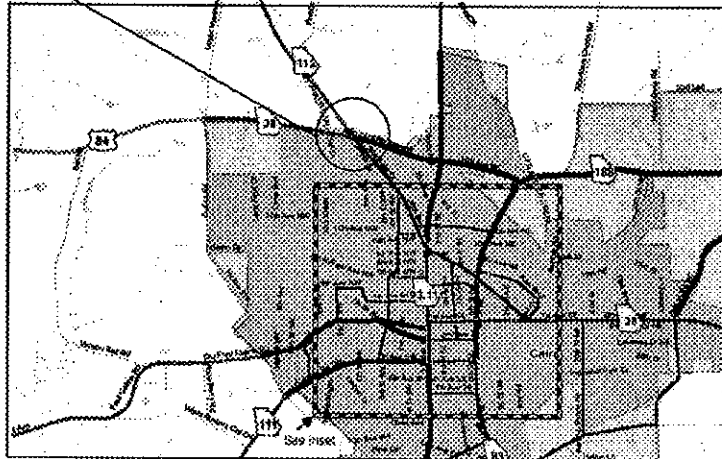
District 4 – Tifton, GA

Project Number: CSNHS-0000-00 (535)

County: Grady

P. I. Number: 0000535

PROJECT LOCATION



Federal Route Number: N/A

State Route Number: N/A.

Intersection Improvement SR 38/US 84 @ SR 112 AND 17th AVE

Recommended for approval:

DATE: 3-22-07

DATE: 3-22-07

This concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and/or the State Transportation Improvement Program (STIP).

DATE: _____

DATE: _____

DATE: 3.29.07

DATE: _____

DATE: _____

Ralph S. [Signature]

Project Manager

Joe W. [Signature]

District Engineer

State Transportation Planning Administrator

Financial Management Administrator

[Signature]
State Environmental/Location Engineer

State Traffic Safety and Design Engineer

Project Review Engineer

21 March, 2007

State of Georgia Department of Transportation

Project Concept Report Page: 1

Project Number: CSNHS-0000-00 (535)

P. I. Number: 0000535

County: Grady

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

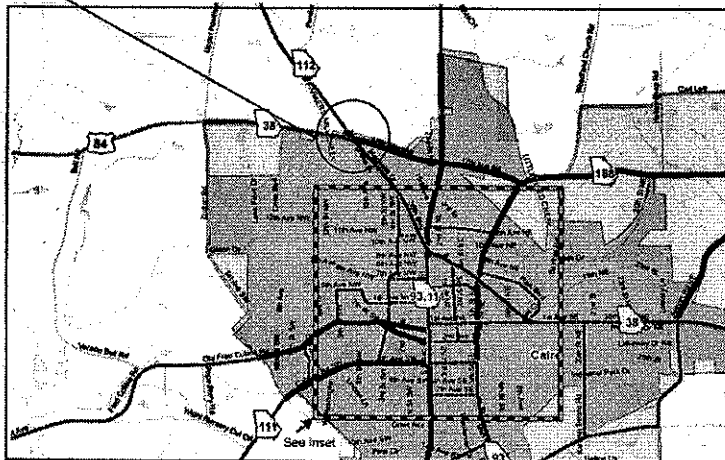
District 4 – Tifton, GA

Project Number: CSNHS-0000-00 (535)

County: Grady

P. I. Number: 0000535

PROJECT LOCATION



Federal Route Number: N/A

State Route Number: N/A.

Intersection Improvement SR 38/US 84 @ SR 112 AND 17th AVE

Recommended for approval:

DATE: 3-22-07

DATE: 3-22-07

This concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and/or the State Transportation Improvement Program (STIP).

DATE: _____

DATE: _____

DATE: _____

DATE: 3-26-07

DATE: _____

Ralph S. Lafferty

Project Manager

Joe W. Gufford

District Engineer

State Transportation Planning Administrator

Financial Management Administrator

State Environmental/Location Engineer

Shuch Sold

State Traffic Safety and Design Engineer

Project Review Engineer

21 March, 2007

State of Georgia Department of Transportation

Project Concept Report Page: 1

Project Number: CSNHS-0000-00 (535)

P. I. Number: 0000535

County: Grady

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

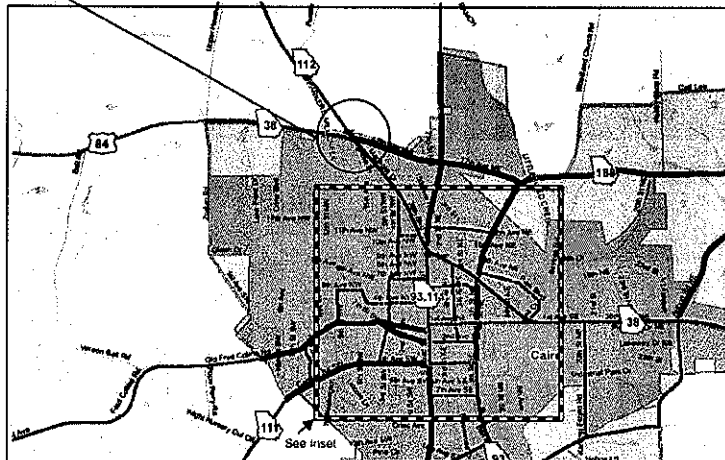
District 4 – Tifton, GA

Project Number: CSNHS-0000-00 (535)

County: Grady

P. I. Number: 0000535

PROJECT LOCATION



Federal Route Number: N/A

State Route Number: N/A.

Intersection Improvement SR 38/US 84 @ SR 112 AND 17th AVE

Recommended for approval:

DATE: 3-22-07

Ralph S. Luff

Project Manager

DATE: 3-22-07

Joe W. Safford

District Engineer

This concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and/or the State Transportation Improvement Program (STIP).

DATE: 3-29-07

Angela S. Alexander

State Transportation Planning Administrator

DATE: _____

Financial Management Administrator

DATE: _____

State Environmental/Location Engineer

DATE: _____

State Traffic Safety and Design Engineer

DATE: _____

Project Review Engineer

SCORING RESULTS AS PER MOG 2440-2

| | | | | | |
|---|--------------|---|---|--|--|
| Project Number: CSNHS-0000-00(535) | | County: Grady | | PI No.: 0000535 | |
| Report Date: March 22, 2007 | | Concept By: DOT Office: District 4 | | | |
| <input checked="" type="checkbox"/> Concept Stage | | | | | |
| Project Type: Choose One From Each Column | | <input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor | <input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural | <input type="checkbox"/> ATMS <input type="checkbox"/> Bridge Replacement <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input checked="" type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous | |
| FOCUS AREAS | SCORE | RESULTS | | | |
| Presentation | 100 | | | | |
| Judgement | 100 | | | | |
| Environmental | 100 | | | | |
| Right of Way | 100 | | | | |
| Utility | 100 | | | | |
| Constructability | 100 | | | | |
| Schedule | 100 | | | | |

21 March, 2007

State of Georgia Department of Transportation

Project Concept Report Page: 1

Project Number: CSNHS-0000-00 (535)

P. I. Number: 0000535

County: Grady

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

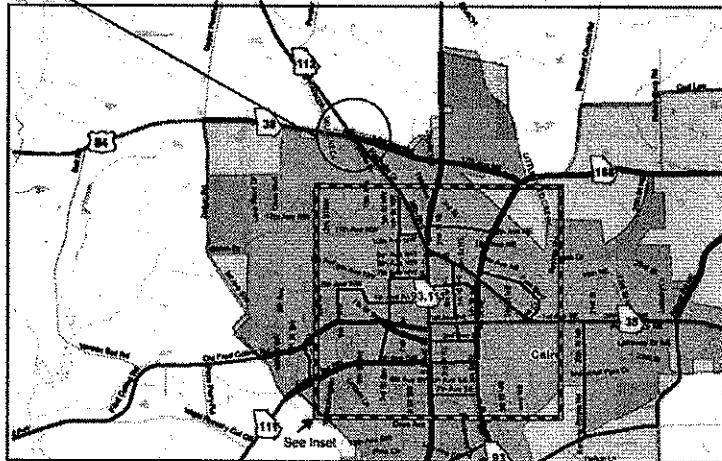
District 4 – Tifton, GA

Project Number: CSNHS-0000-00 (535)

County: Grady

P. I. Number: 0000535

PROJECT LOCATION



Federal Route Number: N/A

State Route Number: N/A.

Intersection Improvement SR 38/US 84 @ SR 112 AND 17th AVE

Recommended for approval:

DATE: 3-22-07

Ralph S. Laffey

Project Manager

DATE: 3-22-07

Joe W. Snifford

District Engineer

This concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (RTP) and/or the State Transportation Improvement Program (STIP).

DATE: _____

State Transportation Planning Administrator

DATE: _____

Financial Management Administrator

DATE: _____

State Environmental/Location Engineer

DATE: _____

State Traffic Safety and Design Engineer

DATE: _____

Project Review Engineer

State of Georgia Department of Transportation

Project Number: CSNHS-0000-00 (535)

County: Grady



22 March, 2007 State of Georgia Department of Transportation
Project Concept Report Page: 3
Project Number: CSNHS-0000-00 (535)
P. I. Number: 0000535
County: Grady

NEED AND PURPOSE
CSNHS-0000-00 (535)
P.I. NO 0000535 – Grady County

US 84/SR 38 is a major east-west route in South Georgia connecting such cities as Valdosta (and I-75) to the east and Dothan, Alabama to the west. US 84 is part of the Governors Road Improvement Program and is also a National Highway System route. In the vicinity of its intersection with SR 112 and 17th Avenue in Cairo, the typical section of US 84/SR 38 consists of an urban 5-lane section (two lanes in each direction) while the typical section of SR 112 and 17th Avenue consists of two lanes (one lane in each direction). SR 112 and 17th Avenue both intersect US 84/SR 38 in close proximity to one another.

SR 112 and 17th Avenue are both functionally classified as Minor Arterials. SR 38/US 84 is functionally classified as a Principal Arterial and is regionally significant serving traveling needs for residents throughout South Georgia by providing a four lane connection from the City of Cairo to the City of Bainbridge to the west and the City of Thomasville to the east. SR38/US84 also provides a connection to I-75 as well as the Governor's Road Improvement (GRIP) Corridors of US 19 and US 27.

Land Use, Census Tract Income and Population Information

The area of the intersections of US 84/SR 38 and 112 and 17th Avenue are surrounded by mainly agricultural with some residential land and consists of census tracts 131319503, 131319504 and 131319505. The minority population for census tracts 131319503, 131319504 and 131319505 are 63.7%, 29.28% and 33.25%, respectively. The average minority population of the state of Georgia is 38% and of Grady County is 36.8% according to the 2000 Census Data.

Approximately 21.3% of Grady County residents are below the poverty level compared to a state average of 13%.

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 Project Concept Report Page: 4
 Project Number: CSNHS-0000-00 (535)
 P. I. Number: 0000535
 County: Grady

Accident Data

The latest four years of available accident data for SR 38/US 84, SR 112 and 17th Avenue is detailed in the following tables.

SR 38/US 84

| Year | 2001 | | 2002 | | 2003 | | 2004 | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Mile points: | SR 38 | State | SR 38 | State | SR 91 | State | SR 91 | State |
| 9.88-10.47 | | Avg. | | Avg. | | Avg. | | Avg. |
| Accidents | 18 | N/A | 10 | N/A | 6 | N/A | 7 | N/A |
| Accident Rate | 653 | 547 | 404 | 419 | 242 | 412 | 292 | 342 |
| Injuries | 4 | N/A | 3 | N/A | 5 | N/A | 1 | N/A |
| Injury Rate | 145 | 143 | 121 | 108 | 202 | 108 | 42 | 89 |
| Fatalities | 0 | N/A | 0 | N/A | 0 | N/A | 0 | N/A |
| Fatality Rate | 0 | 1.49 | 0 | 1.77 | 0 | 0.71 | 0 | 1.07 |

SR 112

| Year | 2001 | | 2002 | | 2003 | | 2004 | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Mile points: | SR112 | State | SR112 | State | SR112 | State | SR112 | State |
| 0.00-3.96 | | Avg. | | Avg. | | Avg. | | Avg. |
| Accidents | 3 | N/A | 6 | N/A | 5 | N/A | 4 | N/A |
| Accident Rate | 86 | 550 | 148 | 577 | 124 | 585 | 101 | 509 |
| Injuries | 2 | N/A | 9 | N/A | 0 | N/A | 3 | N/A |
| Injury Rate | 58 | 143 | 222 | 145 | 0 | 146 | 76 | 127 |
| Fatalities | 0 | N/A | 0 | N/A | 0 | N/A | 0 | N/A |
| Fatality Rate | 0 | 1.40 | 0 | 1.24 | 0 | 1.51 | 0 | 1.44 |

17th Avenue/CR 315

| Year | 2001 | | 2002 | | 2003 | | 2004 | |
|---------------|--------|-------|--------|-------|--------|-------|--------|-------|
| Mile points: | SR 38/ | State | SR 38/ | State | SR 38/ | State | SR 38/ | State |
| 9.54-10.47 | US84 | Avg. | US84 | Avg. | US84 | Avg. | US84 | Avg. |
| Accidents | 0 | N/A | 0 | N/A | 0 | N/A | 0 | N/A |
| Accident Rate | 0 | 550 | 0 | 577 | 0 | 585 | 0 | 509 |
| Injuries | 0 | N/A | 0 | N/A | 0 | N/A | 0 | N/A |
| Injury Rate | 0 | 143 | 0 | 145 | 0 | 146 | 0 | 127 |
| Fatalities | 0 | N/A | 0 | N/A | 0 | N/A | 0 | N/A |
| Fatality Rate | 0 | 1.40 | 0 | 1.24 | 0 | 1.51 | 0 | 1.44 |

On SR 38/US 84, the data shows that injury rates were higher than the state average for the years 2001, 2002, 2003 and 2004 (the most recent years for which accident information is available).

The only year in which the accident rate was higher than average on SR 38/US 84 was 2001. On SR 112 and 17th Avenue/CR 315, accident, injury and fatality rate were below average compared to similar facilities. The type of crashes in the area of the SR 38/US 84 intersection with SR 112 and 17th Avenue/CR 315 fell into the following categories: 22 (38%) were "Not a Collision with a Motor Vehicle"; 18 (31%) were 'Rear End'; 14 (24%) were 'Angle'; 3 (5%) were 'Side Swipe Same Direction'; and 1 (2%) were 'Head on'.

The 'rear end' and or 'angle' crashes could be attributed to vehicles decelerating within the flow of traffic when attempting to turn left which could have contributed to collisions with other vehicles, and being struck from behind by through vehicles. The "not a collision with a motor vehicle" type accidents could be a result of the proximity of SR 112 and 17th Avenue/CR 315 which both intersect SR 38 at nearly the same point.

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Project Concept Report Page: 6
Project Number: CSNHS-0000-00 (535)
P. I. Number: 0000535
County: Grady

Travel Demand

For the year 2014, estimated ADT is projected to be 14,400; 3,700 and 1,400 vehicles per day for SR 38, SR 112 and 17th Avenue/CR 315, respectively. By the year 2034, traffic volume is projected to grow to 23,100; 5,300 and 2,100 vehicles per day for SR 38, SR 112 and 17th Avenue/CR 315, respectively for the years 2014 and 2034. In all cases, the Level of Service (LOS) does not fall below a LOS "C" for the years 2014 and 2034, which is an acceptable LOS.

Background on Project

This intersection improvement was identified in the Cairo Corridor Transportation Study that was completed in March 2003 by the GDOT Office of Planning. During the public meetings held while conducting the study a need for modifying the existing intersection was expressed by the stakeholders attending.

Logical Termini

The proposed projects termini are logical. The termini of this project would consist of an appropriate distance separating the intersection of SR112 with SR 38 and 17th Avenue/CR 315 with SR 38. The actual project termini will be determined during the concept development phase and will examine an appropriate realignment of SR112 and 17th Avenue with SR 38.

Need & Purpose

The proposed project is needed to reduce the incidence of crashes at or near the existing intersections of SR112 with SR 38, and 17th Avenue/CR 315 with SR 38. By realigning SR112 and 17th Avenue/CR 315 accidents could be reduced. The project is considered to be a benefit to all of the communities that use SR 112, SR 38, and 17th Avenue/CR 315.

22 March, 2007 State of Georgia Department of Transportation
Project Concept Report Page: 7
Project Number: CSNHS-0000-00 (535)
P. I. Number: 0000535
County: Grady

Description of Project: This project consists of intersection improvements at the intersection of SR 112 with US 84/SR 38 and 17th Avenue with US 84/SR 38. The proposed project will begin at mile log 9.77 on US 84/SR 38 and continue east to mile log 10.13; the proposed project is approximately 0.36 miles in length. The realignment of SR 112 will begin at mile log 0.00 and continue north to mile log 0.47. The realignment of 17th Avenue will begin at mile log 0.00 and continue east to mile log 0.34. This project is located in the 16th and 17th Land Districts, Land Lots 1 and 38 and G.M.D. 753 in the City of Cairo.

Is the project located in a Non-attainment area? ☐ Yes ☒ No

PDP Classification: Major ☐, Minor ☒

Federal Oversight: Full Oversight ☐, Exempt ☒, State Funded ☐, or Others ☐

Functional Classification: Urban Minor Arterial (17th Avenue/CR 315)
Rural Minor Arterial (SR 112)
Urban Principal Arterial (SR 38/US 84)

U. S. Route Number(s): 84 **State Route Number(s):** 38, 112

Traffic (AADT):

| | | | |
|-------------------|---------------------------|---------------------|---------------------------|
| Base Year: (2014) | <u>14,400 SR 38/US 84</u> | Design Year: (2034) | <u>23,100 SR 38/US 84</u> |
| | <u>3,700 SR 112</u> | | <u>5,300 SR 112</u> |
| | <u>1,400 17th Ave.</u> | | <u>2,100 17th Ave.</u> |

Existing Design Features:

Typical Section: US 84/SR 38

- Four lane (two each direction) roadway with flush median and curb and gutter, 6' grass shoulders, open ditches.
- Posted Speed 45 mph Maximum degree curvature: 3
- Maximum Grade: 2 %
- Width of right of way: 100 ft.
- Major structures: none
- Major interchanges or intersections along the project: none
- Existing length of roadway segment and the beginning mile logs for each county segment:
Project begins at ML 9.77 and extends southeastward approximately 0.36 miles.

Typical Section: SR 112

- Two 12' travel lanes (one each direction), 5' grass shoulders, open ditches.
- Posted Speed 55 mph Maximum degree curvature none
- Maximum Grade: 1 %
- Width of right of way: 100 ft.
- Major structures: none
- Major interchanges or intersections along the project: none

22 March, 2007

State of Georgia Department of Transportation

Project Concept Report Page: 8

Project Number: CSNHS-0000-00 (535)

P. I. Number: 0000535

County: Grady

Typical Section: 17th Avenue/CR 315

- Two 10' travel lanes (one each direction), 4' grass shoulders, open ditches.
- Posted Speed 25 mph Maximum degree curvature none
- Maximum Grade: 4 %
- Width of right of way: 80 ft.
- Major structures: none
- Major interchanges or intersections along the project: none

Proposed Design Features:

US 84/SR 38

- Proposed typical section(s): Four lane (two each direction) roadway with flush median , northbound-right hand 12 ft turn lane and curb and gutter, 6' grass shoulders, open ditches
- Proposed Design Speed Mainline 55 mph
- Proposed Maximum grade Mainline 0.6 % Maximum grade allowable 7 %
- Proposed Maximum grade Side Street N/A % Maximum grade allowable N/A %
- Proposed Maximum grade driveway N/A %
- Proposed Maximum degree of curve N/A %

- Right of way

Width: 130'

Easements: Temporary ☒, Permanent ☐, Utility ☐, Others ☐

Type of access control: Full ☐, Partial ☐, By Permit ☒, Others ☐

Number of parcels 1 Number of displacements:

Business: 0

Residents: 0

Mobile homes: 0

Others: 0

SR 112

- Proposed typical section(s): Two 12 ft travel lanes, one 12 ft right hand turn lane, 8 ft shoulders (2 ft being paved), open ditches
- Proposed Design Speed Mainline 55 mph
- Proposed Maximum grade Mainline 0.6 % Maximum grade allowable 7 %
- Proposed Maximum grade Side Street N/A % Maximum grade allowable N/A %
- Proposed Maximum grade driveway N/A %
- Proposed Maximum degree of curve 16°00' at Intersection of US 84/SR 38

- Right of way

Width: 130 ft.

Easements: Temporary ☒, Permanent ☐, Utility ☐, Others ☐

Type of access control: Full ☐, Partial ☐, By Permit ☒, Others ☐

Number of parcels 2 Number of displacements:

Business: 0

Residents: 0

Mobile homes: 0

Others: 0

22 March, 2007

State of Georgia Department of Transportation

Project Concept Report Page: 9

Project Number: CSNHS-0000-00 (535)

P. I. Number: 0000535

County: Grady

17th Avenue/CR 315

- Proposed typical section(s): Two 12 ft travel lanes, 8 ft grass shoulders, open ditches
- Proposed Design Speed Mainline 35 mph
- Proposed Maximum grade Mainline 1.8 % Maximum grade allowable 7 %
- Proposed Maximum grade Side Street N/A % Maximum grade allowable N/A %
- Proposed Maximum grade driveway 10 %
- Proposed Maximum degree of curve 9°00'
- Right of way
 - Width: 150 ft.
 - Easements: Temporary ☒, Permanent ☐, Utility ☐, Others ☐
 - Type of access control: Full ☐, Partial ☐, By Permit ☒, Others ☐
 - Number of parcels 1 Number of displacements:
 - Business: 0
 - Residents: 0
 - Mobile homes: 0
 - Others: 0

- Structures: none
- Major intersections and interchanges: none
- Traffic control during construction: Traffic will be maintained on existing roadway.
- Design Exceptions to controlling criteria anticipated:

| | UNDETERMINED | YES | NO |
|-----------------------------|--------------------------|--------------------------|-------------------------------------|
| HORIZONTAL ALIGNMENT: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| ROADWAY WIDTH: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| SHOULDER WIDTH: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| VERTICAL GRADES: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| CROSS SLOPES: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| STOPPING SITE DISTANCE: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| SUPERELEVATION RATES: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| HORIZONTAL CLEARANCE | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| SPEED DESIGN: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| VERTICAL CLEARANCE: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| BRIDGE WIDTH: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| BRIDGE STRUCTURAL CAPACITY: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Design Variances: None anticipated

Environmental concerns:

- **Level** of environmental analysis:
 - ⇒ Are Time Saving Procedures appropriate? Yes ☒, No ☐
 - ⇒ Categorical Exclusion: ☒
 - ⇒ Environmental Assessment/Finding of No Significant Impact (FONSI) ☐, or
 - ⇒ Environmental Impact Statement (EIS) ☐.

State of Georgia Department of Transportation

Project Concept Report Page: 10

Project Number: CSNHS-0000-00 (535)

P. I. Number: 0000535

County: Grady

- Utility involvement:
City of Cairo
Georgia Power Transmission
Grady EMC
Windstream Communications

Project responsibilities:

- ⇒ Design, GDOT
- ⇒ Right of Way Acquisition, GDOT
- ⇒ Relocation of Utilities, Utility Owners
- ⇒ Letting to contract, GDOT
- ⇒ Supervision of construction, GDOT
- ⇒ Providing material pits, n/a
- ⇒ Providing detours, n/a

Coordination:

- Initial Concept Meeting Date _____
-
- Concept Meeting Date Sept. 13, 2006
-
- P. A. R. Meeting Date _____
-
- Public involvement: None
- Local government comments: See attached meeting minutes
- Other projects in area: None
- Other coordination to date: None
- Railroads: None
- **VE STUDY REQUIRED: NO.**

Scheduling – Responsible Parties' Estimate

- Time to complete environmental process: 18 Months.
- Time to complete preliminary construction plans :10 Months.
- Time to complete right of way plans: 4 Months.
- Time to complete the Section 404 Permit: 12 Months.
- Time to complete final construction plans: 10 Months.
- Time to complete to purchase right of way: 10 Months.
- List other major items that will affect the project schedule: None

Other alternates considered: Two alternates were considered for the realignment of SR 112. The first alternate was to use the same proposed point of intersection with SR 38/US 84 and incorporate a larger radius curve; using a larger radius curve would cause impacts to an existing electrical substation north of the intersection. The second alternate was to realign SR 112 further to the west; this alignment would cause the intersection to be in a sag vertical curve and limit sight distance for vehicles turning onto SR 38/US 84 from SR 112. Both alternates were abandoned and the proposed alignment was chosen which will avoid the electrical substation and

22 March, 2007

State of Georgia Department of Transportation

Project Concept Report Page: 11

Project Number: CSNHS-0000-00 (535)

P. I. Number: 0000535

County: Grady

intersect SR 38/US 84 at the crest of the existing vertical curve which will provide optimal sight distance.

Comments: Advanced warning signs will be placed prior the curve at the intersection of SR 112 & SR 38/ US 84.

Attachments:

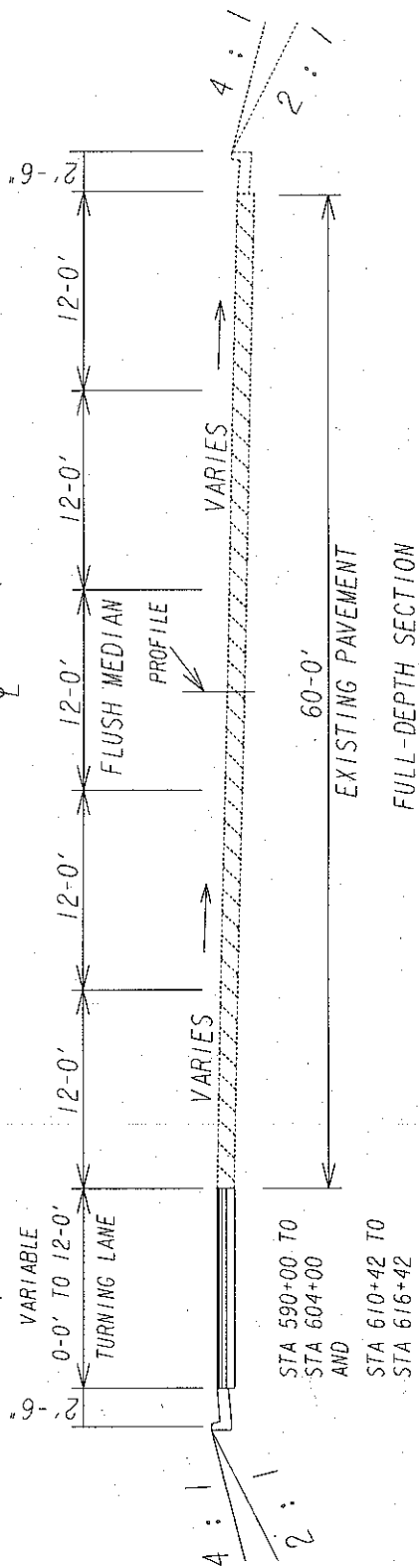
1. Typical Sections
2. Cost Estimates
3. Traffic Assignments
4. Minutes of Concept Meeting
5. LGPA
6. Location and Design Notice
7. Preliminary Plan Layout

TYPICAL SECTION

US 84/SR 38, Grady County

CONSTR.

CL



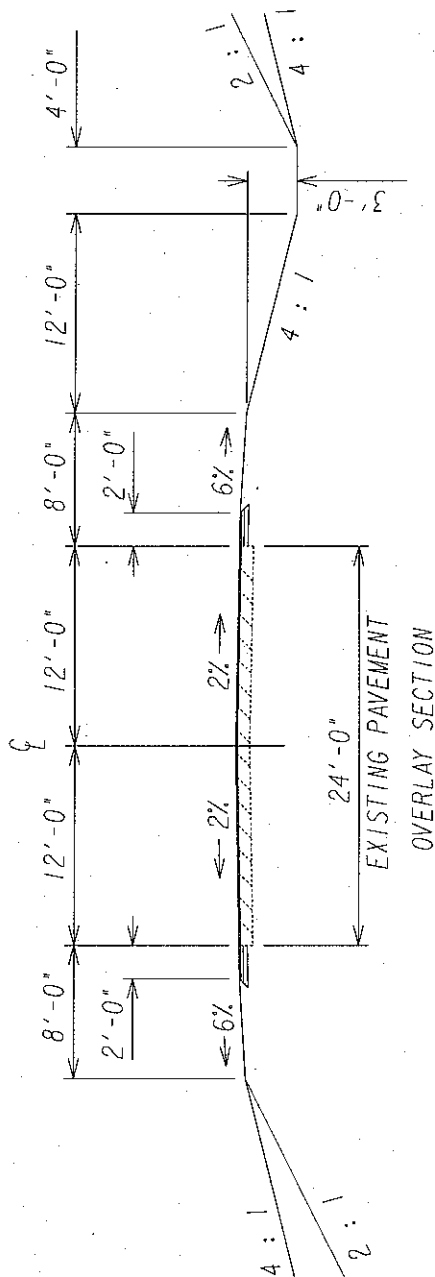
FULL-DEPTH SECTION

165 LBS/SY RECYCLED ASPHALT CONCRETE 12.5 mm SUPERPAVE
 220 LBS/SY RECYCLED ASPHALT CONCRETE 19 mm SUPERPAVE
 550 LBS/SY RECYCLED ASPHALT CONCRETE 25 mm SUPERPAVE
 10" GRADED AGGREGATE BASE

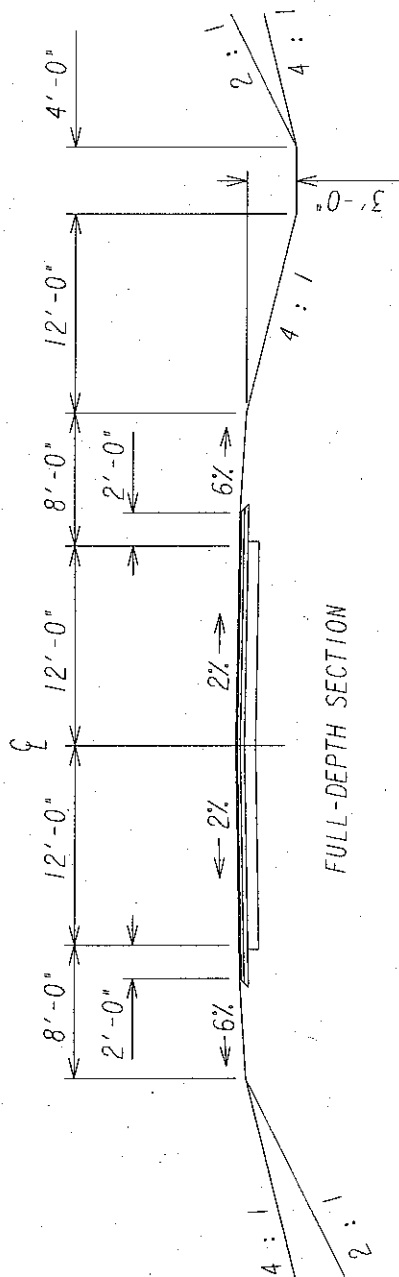
TYPICAL SECTION

SR 112, Grady County

CONSTR.



CONSTR.



FULL-DEPTH SECTION

OVERLAY SECTION

135 LBS/SY RECYCLED ASPHALT CONCRETE 9.5 mm SUPERPAVE
220 LBS/SY RECYCLED ASPHALT CONCRETE 19 mm SUPERPAVE
550 LBS/SY RECYCLED ASPHALT CONCRETE 25 mm SUPERPAVE
10" GRADED AGGREGATE BASE

135 LBS/SY RECYCLED ASPHALT CONCRETE 9.5 mm SUPERPAVE

Estimate Report for file "0000535"**Section ROADWAY ITEMS**

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---------------------------|----------|-------|------------|---|-----------------------|
| 150-1000 | Lump | LS | 20000.00 | TRAFFIC CONTROL - CSNHS-0000-00(535) | 20000.00 |
| 210-0100 | Lump | LS | 400000.00 | GRADING COMPLETE - CSNHS-0000-00(535) | 400000.00 |
| 310-5080 | 3086 | SY | 15.41 | GR AGGR BASE CRS, 8 INCH, INCL MATL | 47555.26 |
| 310-5100 | 7742 | SY | 16.00 | GR AGGR BASE CRS, 10 INCH, INCL MATL | 123872.00 |
| 402-1812 | 1180 | TN | 62.50 | RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME | 73750.00 |
| 402-3112 | 1478 | TN | 69.50 | RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME | 102721.00 |
| 402-3113 | 264 | TN | 87.10 | RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME | 22994.40 |
| 402-3131 | 705 | TN | 76.81 | RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME | 54151.05 |
| 402-3143 | 2555 | TN | 82.72 | RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL | 211349.60 |
| 413-1000 | 1191 | GL | 1.98 | BITUM TACK COAT | 2358.18 |
| 441-6222 | 1100 | LF | 17.54 | CONC CURB & GUTTER, 8 IN X 30 IN, TP 2 | 19294.00 |
| Section Sub Total: | | | | | \$1,078,045.49 |

Section SIGNS AND MARKING

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---------------------------|----------|-------|------------|---|--------------------|
| 636-1020 | 119 | SF | 14.79 | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3 | 1760.01 |
| 636-1033 | 125 | SF | 21.73 | HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9 | 2716.25 |
| 636-2070 | 40 | LF | 8.63 | GALV STEEL POSTS, TP 7 | 345.20 |
| 653-0120 | 8 | EA | 70.58 | THERMOPLASTIC PVMT MARKING, ARROW, TP 2 | 564.64 |
| 653-1501 | 7600 | LF | 0.59 | THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE | 4484.00 |
| 653-1502 | 6700 | LF | 0.59 | THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW | 3953.00 |
| 653-1704 | 24 | LF | 5.20 | THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE | 124.80 |
| 653-6004 | 95 | SY | 2.73 | THERMOPLASTIC TRAF STRIPING, WHITE | 259.35 |
| 654-1001 | 42 | EA | 3.63 | RAISED PVMT MARKERS TP 1 | 152.46 |
| Section Sub Total: | | | | | \$14,359.71 |

Section TEMPORARY EROSION CONTROL

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---------------------------|----------|-------|------------|---|--------------------|
| 163-0232 | 6 | AC | 574.21 | TEMPORARY GRASSING | 3445.26 |
| 163-0240 | 174 | TN | 177.56 | MULCH | 30895.44 |
| 163-0300 | 4 | EA | 2728.85 | CONSTRUCTION EXIT | 10915.40 |
| 163-0522 | 70 | EA | 2.87 | CONSTRUCT AND REMOVE TEMPORARY DITCH CHECKS-TYPE A SILT FENCE | 200.90 |
| 165-0030 | 600 | LF | 1.78 | MAINTENANCE OF TEMPORARY SILT FENCE, TP C | 1068.00 |
| 165-0040 | 35 | EA | 89.08 | MAINTENANCE OF EROSION CONTROL CHECKDAMS/DITCH CHECKS | 3117.80 |
| 171-0030 | 1200 | LF | 4.03 | TEMPORARY SILT FENCE, TYPE C | 4836.00 |
| Section Sub Total: | | | | | \$54,478.80 |

Section PERMANENT EROSION CONTROL

| Item Number | Quantity | Units | Unit Price | Item Description | Cost |
|---------------------------|----------|-------|------------|-----------------------------|--------------------|
| 700-6910 | 12 | AC | 917.26 | PERMANENT GRASSING | 11007.12 |
| 700-7000 | 24 | TN | 59.55 | AGRICULTURAL LIME | 1429.20 |
| 700-7010 | 30 | GL | 19.21 | LIQUID LIME | 576.30 |
| 700-8000 | 9 | TN | 350.05 | FERTILIZER MIXED GRADE | 3150.45 |
| 700-8100 | 1200 | LB | 2.08 | FERTILIZER NITROGEN CONTENT | 2496.00 |
| Section Sub Total: | | | | | \$18,659.07 |

Total Estimated Cost: \$1,165,543.07**Subtotal Construction Cost \$1,165,543.07**

E&C Rate 10.0 % \$116,554.31

Inflation Rate 0.0 % @ 0.0 Years \$0.00

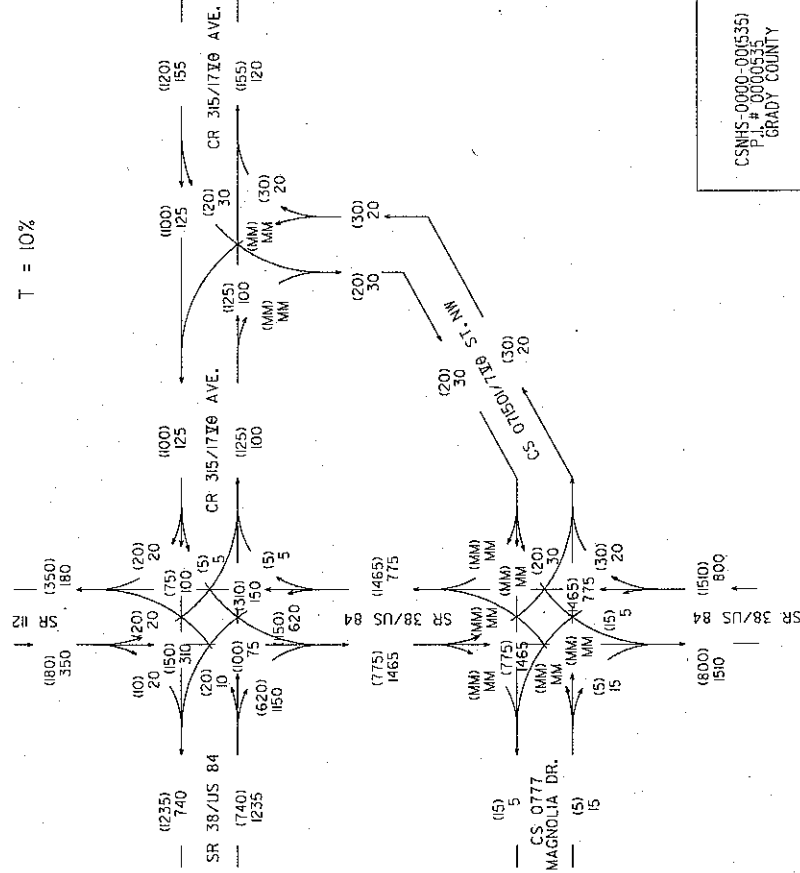
Total Construction Cost \$1,282,097.38

Right Of Way \$60,000.00

| | |
|------------------|-------------|
| ReImb. Utilities | \$50,000.00 |
|------------------|-------------|

| | |
|---------------------------------|-----------------------|
| Grand Total Project Cost | \$1,392,097.38 |
|---------------------------------|-----------------------|

GRADY COUNTY



S.R. 38/US 84 @
SR 112 AND 17TH AVE.

3106 SMS

**Department of Transportation
State of Georgia**

**Concept Meeting Minutes
October 11, 2006**

Project No. CSNHS-0000-00(535), Grady Co.
PI No. 0000535
Description Intersection Improvements, SR 38/US 84 @ SR 112 & 17th Avenue

A Concept Team Meeting was held for the subject project on September 13, 2006. The meeting was requested and conducted by Ralph S. Griffin District Design Engineer. The meeting was held at the GDOT District Office in Tifton and began at 10:00 am. The meeting began with introductions and Mike Popp, District Design Squad Leader, gave an outline of the Draft Concept Report.

Joe Burns, District Environmentalist stated that federal money will be provided and that this project will require a categorical exclusion. He also stated that no wetlands were impacting at the present time therefore no permit will be required. He stated that archeological and historical analysis will be required. He mentioned that there was concern over a possible historical house, owned by John and Susan Hall, located in close proximity of the project. Overall, there are no environmental problems with the project and that 5-6 months should be sufficient to get environmental cleared.

Ken Cheek, District Utility Office, read over the Utility Cost Estimate and list of utility owners. The utility owners for this project are The City of Cairo, Georgia Power Transmission, Grady EMC & Windstream Communications.

Danny Gay, Traffic Operations, stated that 22 non-collision accidents seemed high for this intersection. Mr. Gay also wanted to verify the design speed in conjunction with curb and gutter. He expressed concerns about the 16 degree curve at the intersection of SR 112 and Sr 38/US 84 and the need for a Signal Warrant Evaluation for SR 112 and SR 38/US 84. Mr. Gay stated that he preferred 4:1 back slopes if possible and a need for auxiliary lanes on 17th Avenue.

Van Mason, District Traffic Engineer, wanted to know the LOS for the design year of 2034 and requested that traffic analysis be run separately for each road.

Chris Addleton, City of Cairo, expressed concerns about the proposed 150' R/W for 17th Avenue. He also stated that the City wanted the project as soon as possible and asked about the phases of the project and time frame.

Glenn Hester, Grady EMC stated they have a concern for 2 poles on the right-of-way but would wait for preliminary plans.

Chris Addleton expressed the need for a deceleration or right turn lane for the technical school.

Ralph Griffin showed the concept design to those in attendance and explained in detail the layout of the project.

Rebecca Cline, Property Owner, stated the need for a driveway access for the Hall property. Ms. Cline also stated that she is willing to help expedite the project.

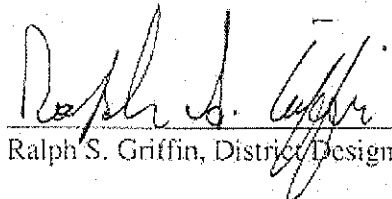
Joe Sheffield, District Engineer, asked Ms. Cline if all of the surrounding property was her family's property. Ms. Cline stated "yes"; Mr. Sheffield then discussed the buy-back option concerning the property. Mr. Sheffield also stated that the existing 17th Avenue roadway would be left for driveway access to the John and Susan Hall property.

Danny Gay, Traffic Operations, requested a copy of the plans be sent to Gary Hampton, Traffic Operations.

Rep. Gene Maddox expressed concerns about a dangerous intersection located up the street from this project and asked if a signal could be installed.

Danny Gay said he did not think that intersection warranted a traffic signal.

The meeting adjourned around 10:45 am.


Ralph S. Griffin, District Design Engineer

SIGN IN SHEET

PROJECT NO.: CSNHS-0000-00(535)

P. I. NO.: 0000535

COUNTY: GRADY

DATE: SEPT. 13, 2006

TIME: 10:00 am

| NAME | AGENCY | PHONE NO. |
|------------------|--------------------|--------------------|
| Sandy Griffin | GDOT-DDE | 229-386-3618 |
| Dennis L. Cook | GDOT-Design | 229-386-3036 |
| Mike Popp | GDOT-Design | 229-386-3031 |
| Joc Burns | GDOT-Environmental | 229-386-3046 |
| Shane Pridgen | GDOT-Planning | 229-386-3045 |
| KEN CHEEK | GDOT-UTILITIES | 386-8288 |
| Glenn Hester | Grady EMC | 229-377-4182 |
| RANDY HERRIN | GDOT-AAE | 229-524-5760 |
| BRENT Thomas | GDOT-PRGNSR. | 229-386-3300 |
| RUSSELL WILSON | GEORGIA POWER | 229-387-3315 |
| DANNY P. GAY | GDOT-T-ops | 229-386-3435 |
| JASON GAINES | WINDSTREAM | 229-217-4569 |
| Van Mason | GDOT-Traffic | 229-386-3435 |
| CHRIS ADDLETON | CITY OF CAIRO | 229-377-1722 X3000 |
| Rebecca Cline | Property Owner | 229-377-9728 |
| JOE W. SHEFFIELD | GDOT-DE | 229-386-3200 |
| Rep. Gene Maddox | GDOT | 229-377-1812 |
| | | |
| | | |



Department of Transportation

HAROLD E. LINNENKOHL
COMMISSIONER
(404) 656-5206

DAVID E. STUDSTILL, JR., P.E.
CHIEF ENGINEER
(404) 656-5277

State of Georgia
#2 Capitol Square, S.W.
Atlanta, Georgia 30334-1002

LARRY E. DENT
DEPUTY COMMISSIONER
(404) 656-5212

EARL L. MAHFUZ
TREASURER
(404) 656-5224

August 10, 2005

Mr. Robert Burns
Commission Chairman, Grady County
250 North Broad Street, Box 7
Cairo, GA 39828

Dear Chairman Burns:

Subject: Local Government Responsibilities

Project No. CSNHS-0000-00(535) Grady Co. PI# 0000535
SR 38/US 84 @ SR 112 AND 17TH AVE

The Office of Financial Management has added the subject project to the Department's Construction Work Program.

In an effort to improve project delivery, the Department has decided to adopt a new policy in regards to Local Government responsibility and commitment requirements. For projects generated by a State Highway System need, the Department will no longer request upfront Local Government commitments nor require Local Governments to bear costs for third parties. These projects will be classified as "Department Projects" hereon. The Department will assume the eligible costs for all utilities and railroads holding a property interest.

However, utility adjustment / relocation costs associated with any utility that was originally installed within a public right of way shall remain the responsibility of each respective utility owner (Office Code of Georgia Annotated 32-6-171). Please ensure that adequate funding is budgeted for the adjustment / relocation of such utility facilities owned by your Local Government (including any associated Authority's facilities). The Department's District Utilities Office will contact you to determine the potential impacts to your facilities.

Also, in an effort to improve project coordination, the Department strongly urges all Local Governments and associated Authorities that own water and sewer facilities to include such relocation work in the project by notifying the Department's District Utilities Office as early as possible in the project's development.

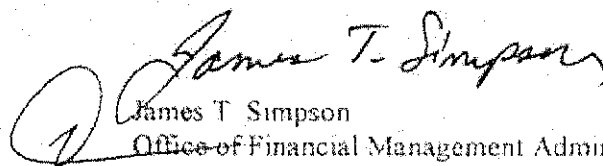
August 10, 2005

Page 2

We hope this new policy will eliminate some of the uncertainties for Local Governments when making early commitments for often unknown costs; and the scheduled delivery of each project will be more reliable.

If you have any questions, feel free to call me at (404) 463-0966 or Joe Sheffield, District Engineer in Tifton at your convenience.

Sincerely yours,

A handwritten signature in cursive script that reads "James T. Simpson". The signature is written in dark ink and is positioned above the printed name and title.

James T. Simpson

Office of Financial Management Administrator

JTS RR:kp

cc: Joe Sheffield - District 4 Engineer
cc: Tim Warren - District 4 Utilities Engineer
cc: Jeff Baker - State Utilities Engineer
cc: Ralph Griffin - Project Manager, District 4

NOTICE OF LOCATION AND DESIGN APPROVAL

CSNHS-0000-00(535), Grady County
PI No. 0000535

Notice is hereby given in compliance with Georgia Code 22-2-109 that the Georgia Department of Transportation has approved the Location and Design of the above project.

The date of location approval is May 2, 2007.

Description of the project: This project consists of intersection improvements at the intersection of SR 112 with US 84/SR 38 and 17th Avenue with US 84/SR 38. The proposed project will begin at mile log 9.77 on US 84/SR 38 and continue east to mile log 10.13; the proposed project is approximately 0.36 miles in length. The realignment of SR 112 will begin at mile log 0.00 and continue north to mile log 0.47. The realignment of 17th Avenue will begin at mile log 0.00 and continue east to mile log 0.34. This project is located in the 16th and 17th Land Districts, Land Lots 1 and 38 and G.M.D. 753 in the City of Cairo.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Andy Oliver, Area Engineer
Andy.oliver@dot.state.ga.us
734 W. Crawford St.
Donalsonville, GA 39845
(229) 524-5760

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Ralph S. Griffin, District Design Engineer
sandy.griffin@dot.state.ga.us
Georgia Department of Transportation
PO Box 7510
Tifton, GA 31793
(229) 386-3300

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.

